

Claims

1. A native membrane-type matrix-metalloproteinase characterized by a continuous sequence of hydrophobic amino acids peculiar to membrane-binding proteins from amino acid number 533 to 562 in the C terminus domain shown in Sequence Sheet sequence number 1.

2. A native membrane-type matrix-metalloproteinase according to claim 1, characterized by the amino acid sequence from amino acid number 160 to 173, 320 to 333 and from 498 to 512 shown in Sequence Sheet sequence number 1.

3. A native membrane-type matrix-metalloproteinase according to claim 1, characterized by the amino acid sequence from amino acid number 1 to 173, 320 to 333, 498 to 512 and 563 to 582 shown in Sequence Sheet sequence number 1.

4. A DNA having the nucleotide sequence shown in Sequence Sheet sequence number 2 which corresponds to the amino acid sequence of a membrane-type matrix-metalloproteinase according to claim 1, 2 or 3.

5. A plasmid containing a DNA having the nucleotide sequence according to claim 4 and expressing a membrane-type matrix-metalloproteinase according to claim 1, 2 or 3.

6. A host cell harbouring a plasmid containing a DNA having the nucleotide sequence according to claim 4, and expressing a membrane-type matrix-metalloproteinase according to claim 1, 2 or 3.

7. Monoclonal antibodies which peculiarly recognize a membrane-type matrix-metalloproteinase according to claim 1, 2 or 3.

8. A protein having the amino acid sequence shown in Sequence Sheet sequence number 1.

9. A DNA having the nucleotide sequence shown in Sequence Sheet sequence number 2 which encodes a protein having the amino acid sequence shown in Sequence Sheet sequence number 1.

10. A plasmid containing a DNA having the nucleotide sequence shown in Sequence Sheet sequence number 2, and expressing the protein shown in Sequence Sheet sequence number 1.

11. A host cell harbouring a plasmid containing a DNA having the nucleotide sequence shown in Sequence Sheet sequence number 2, and expressing the protein shown in Sequence Sheet sequence number 1.

12. Monoclonal antibodies which peculiarly recognize a protein having the amino acid sequence shown in Sequence Sheet sequence number 1.

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B2